



Andrews, David

From: Andrews, David
Sent: Tuesday, November 30, 2010 3:28 PM
To: 'Caplis, Chris'
Subject: RE: GM 444-32 Low TOC

Chris,

It would be acceptable to proceed with your initial completions (Lower Cameo up through Mesaverde II) with a top perf of 5759' prior to proceeding with the cement remediation to cover the Mesaverde III perms from 5708' to 5514'. Per your attached procedure, I understand that your planned remedial TOC would be 3579' (500' above the MVRD top at 4079').

Thanks,

David D. Andrews, P.E., P.G.
Engineering Supervisor - Western Colorado

State of Colorado
Oil and Gas Conservation Commission
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From: Caplis, Chris [<mailto:Chris.Caplis@Williams.com>]
Sent: Monday, November 29, 2010 10:47 AM
To: Andrews, David
Subject: GM 444-32 Low TOC

Mr. Andrews,

We have low TOC on the following two well:

GM 444-32 – MV well

1. This well is a new drill and initial MV completion operations are scheduled for tomorrow, Nov. 30th, 2010.
2. We have good bond up to the TOC. We will perform a remediation cement job (attached) before we complete the final stage of the well (MV 3) to heighten our cement column above that stage. We do plan to move forward with completion operations with the first 4 stages.

Sec	Twn	Rng	Well	API	CBL TOC	Top of MVRD	Short*	Top of Gas	Top Perf	Cmt over Perf	Bradenhead Press Before Completion
32	6	96	GM 444-32	05-045-17824	5,458	4,076	-1,582	5,305	5514	56	0

*Note: I'm assuming 200' above MVRD for cement coverage

Braden head was gauged and shows zero pressure.

I have posted the CBL's on our FTP site.

As mentioned above, the current plan is to move forward with operations until we get to the MV3 stage at which point we will remediate prior to completing that stage. Please advise if this plan is acceptable.

Regards,

Chris Caplis

Completions Engineer

Williams Production Co.

Ofc: 303-606-4041

Cell: 303-601-4884

chris.caplis@williams.com



**Williams Production RMT Co.
Cement Remediation Procedure**

Well: **GM 444-32**

Prepared By: Chris Caplis

Surf Loc: SENE S32 T6S R96W

Cell Phone: (303) 601-4884

Field: PARACHUTE

Office Phone: (303) 606-4041

Production Casing: 4-1/2" 11.6# E-80

Fax: (303) 629-8282

Correlate Log: Baker Hughes CBL - 11/12/2010

MAX Pressure 7000 psi

Date: 11/01/2010

RMWS Conventional System

Stage Top Stage Btm Gross Int Top Perf Btm Perf Holes Gross Pay

MIRU Wireline.

Make sure the casing is full with fluid before perforating

Shoot 2 squeeze holes at 5,354'.

RIH with Baker retrievalbe packer and set at 5,254' with tubing.

Perform injection test

Call Denver with injection test results

Pump 10 bbls of water, 20 bbl of mud flush, 10 bbls of water

Pump 300 sxs of 13.5 ppg cement with backside open

Pump 100 sxs of 17.0 ppg cement and stage last two bbl of slurry to achieve squeeze with bradenhead valve closed.

Reverse circulate out any remaining cement in the tubing.

POOH with tubing.

Wait 48 hours, run CBL from top of retainer to 500' above MVRD (4,079').

2 3/8" 4.7" J-55 tubing capacity:
.00387 bbls/ft
258.65 Linear ft per bbl

4 1/2" - 9" hole Annular Capacity:
.0590 bbls/ft
16.95 Linear ft per bbl
.3313 cuft/Linear ft
3.01 Linear ft/cuft

4 1/2" 11.6 #/ft E-80 casing capacity:
.0155 bbls/ft
64.34 Linear ft per bbl
.0872 cuft/Linear ft
11.46 Linear ft/cuft

Cement:	300 sxs			
	13.5 ppg	1.41 cuft/sk	6.45 gal/sk	
Cement:	100 sxs AG-300 + 0.5% CFR-3			
	17.0 ppg	0.99 cuft/sk	3.84 gal/sk	

	Gals SLF	Gross Int	Stages	Sands	Holes	Gross Pay	Top of Cmt	Top of MV	Top of Gas	Tubing Depth
Well Totals							5458	4079	5270	

	Horz Rch	Max Angle	@ Depth	Max DLS	@ Depth	MD-TVD	Flt Collar	CBL TMD
	1710	27.0	1063	4.44	709			